COS 202: Chemicals

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COS 202: CHEMICALS

Citrus College Course Outline of Record

Heading	Value
Effective Term:	Fall 2023
Credits:	8.5
Total Contact Hours:	240
Lecture Hours :	120
Lab Hours:	120
Hours Arranged:	0
Outside of Class Hours:	240
Total Student Learning Hours:	480
Prerequisite:	COS 141.
Strongly Recommended:	ENGL 101.
Transferable to CSU:	No
Transferable to UC:	No
Grading Method:	Standard Letter

Catalog Course Description

An introduction to the science and theories of hair color, bleach, chemical straighteners, and chemical waves. Lectures, demonstrations and practical experience in the following areas: hair color, bleach, predisposition and strand tests, formulation, color removal, chemical waving, and chemical straightening. 120 lecture hours, 120 lab hours.

Course Objectives

- Practice safety, sanitation, and disinfection procedures for chemical services, tools, implements, and equipment.
- Comprehend the role of density, porosity, hair texture, and wave pattern of the hair in the proper analysis and choice of chemicals.
- Differentiate and comprehend the various chemicals used for a chemical wave
- Differentiate and comprehend the various chemicals used for a chemical relaxer/straightener.
- Differentiate and comprehend the various chemicals used for a chemical curl reformation.
- Comprehend the various base sizes, base placements, and sectioning patterns used to position tools and the outcome.
- Demonstrate the knowledge and ability to perform the most widely used perm patterns using advanced techniques: rectangle, contour, bricklay, spiral, and "beach waves."
- Demonstrate and perform virgin and retouch applications for a chemical relaxer/straightener.
- Demonstrate and perform virgin and retouch applications for curl reformation.
- Develop strong communication skills regarding chemical texture services.
- Comprehend the various chemicals used to perform color applications: temporary, semi-permanent, demi-permanent, permanent, developers, decolorizers, color remover.
- Differentiate between the following: levels of color, stages of decolorization, tone, intensity, complimentary colors.

- Demonstrate advanced techniques: weaving, slicing, block patterns, zones, balayage, ombre, corrective color.
- · Develop strong communication skills regarding hair color services.

Major Course Content

Health and Safety

- 1. Infection control
- 2. Draping
- 3. Tools
- 4. Predisposition test
- 5. Disinfecting procedures

Hair Analysis

- 1. Wave pattern
- 2. Texture
- 3. Porosity
- 4. Elasticity
- 5. Density

Product Knowledge and Chemistry (relaxers and perms)

- 1. Sodium hydroxide relaxers
- 2. Thioglycolic relaxers
- 3. Ammonium thioglycolate
- 4. Acid waves
- 5. Alkaline waves
- 6. Exothermic waves
- 7. Endothermic waves
- 8. "American" waves

Product Knowledge and Chemistry (hair color)

- Categories of color (temporary, semi-permanent, demi-permanent, permanent)
- 2. Analine derivatives
- 3. Developers
- 4. Bleach (on and off the scalp, powder, oil, or cream)
- 5. Levels of color
- 6. Stages of decolorizing
- 7. Color wheel
- 8. Underlying/contributing pigment

Chemical Texturizing Tools/Equipment

- 1. Rods (straight/concave)
- 2. Spiral rods
- 3. Soft bender rods, loops
- 4. Combs
- 5. Picks
- 6. Heated dryer/open air machine

Hair Color Tools and Equipment

- 1. Brushes
- 2. Bowls, bottles

- 3. Combs
- 4. Open air machine

Communication

- 1. Record keeping
- 2. Consultation

Lab Content

Chemical Texturizing Techniques

- 1. Virgin/retouch chemical relaxer/straightener
- 2. Virgin/retouch curl reformation
- 3. Virgin/retouch soft curl relaxer
- 4. 8-9 Block basic perm application
- 5. Advanced spiral application
- 6. Advanced bricklay pattern
- 7. Advanced loop pattern
- 8. Advanced contour/block pattern
- 9. Advanced relaxer application
- 10. American wave application

Hair Color and Bleaching Techniques

- 1. Color retouch application
- 2. Bleach retouch application
- 3. Virgin color application
- 4. Virgin bleach application
- 5. Toner application
- 6. Highlighting and slicing applications
- 7. Lowlight application
- 8. Balayage application
- 9. Ombre application
- 10. Shadow root application
- 11. Zonal/block color applications
- 12. Color melting
- 13. Removal of artificial color
- 14. Tint back to natural applications

Suggested Reading Other Than Required Textbook

Modern Salon Magazine American Salon Magazine Behind the Chair Magazine

Examples of Required Writing Assignments

Compare and contrast a permanent wave acid solution vs. permanent wave alkaline solution.

Examples of Outside Assignments

Demonstrate a bricklay pattern application using a non-metal permanent wave tool on a mannequin.

Instruction Type(s)

Lab, Lecture, Online Education Lab, Online Education Lecture